



KS4 Curriculum Overview - Design & Technology

Your child will learn about how products are designed and manufactured from a range of materials and processes. This will develop their knowledge, skills and understanding of the wide variety of materials areas and associated theory specification units during each half term. Student will also build design and modelling skills to undertake a coursework unit throughout Y11.

Term	Year 10	Year 11
Autumn 1	Material studies and Metals: <ul style="list-style-type: none"> Materials theory Materials studies CAD/CAM Pewter casting practical project 	NEA - Section B and C <ul style="list-style-type: none"> Brief Specification Idea generation
Autumn 2	Woods: <ul style="list-style-type: none"> Woods theory Book ends practical project 	NEA - Section D: <ul style="list-style-type: none"> Idea development Modelling CAD development
Spring 1	Polymers: <ul style="list-style-type: none"> Polymer theory Polymals lamp practical project 	NEA - Section E: <ul style="list-style-type: none"> Final prototype manufacture Workshop practical
Spring 2	Graphics: <ul style="list-style-type: none"> Graphics materials theory Origami practical 	NEA - Section F: <ul style="list-style-type: none"> Testing Evaluating
Summer 1	Mini NEA: <ul style="list-style-type: none"> Needs and Wants Egonomics 	Exam prep: <ul style="list-style-type: none"> Exam practise Theory Revision
Summer 2	NEA: <ul style="list-style-type: none"> AQA Section A Research / client 	GCSE Public Examinations

Through the study of Design & Technology your child will be expected to develop the following knowledge, skills and understanding:

Concept / Skill 1

- Theory understanding of materials
- Theory understanding of manufacturing

Concept / Skill 2

- Design development
- Model making and practical skills

Parents can support their child by talking to their child about the course and what they are doing and why, ensuring their attendance to the subject and support sessions afterschool, and checking their work on google classroom.